

SEQUENCE LISTING

<110> Anderson, Christen M.
 Davis, Robert E.
 Clevenger, William
 Wiley, Sandra Eileen
 Willer, Scott W.
 Szabo, Tomas R.
 Ghosh, Soumitra S.
 Moos, Walter H.
 Pei, Yazhong

<120> PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT),
 NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

<130> 660088.420D4

<140> US

<141> 2001-03-14

<160> 37

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 894

<212> DNA

<213> Homo sapien

<400> 1

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gccagcaaac	agatcagtg	tgagaagcag	tacaaaggga	tcattgattg	tgtggtgaga	180
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gcagtcgcag	ggctgctgtc	ctaccctttt	gacactgttc	gtcgtagaat	gatgatgcag	720
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gcaaaagacg	aaggagccaa	ggccttcttc	aaaggtgcct	ggtccaatgt	gctgagaggg	840
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<212> DNA

<213> Homo sapien

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gccagcaagc	agatcactgc	agataagcaa	tacaaaggca	ttatagactg	cgtgggtccgt	180
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<210> 4
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<210> 6

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 <211> 43
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<210> 8
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<220>
 <223> PCR Primer

<400> 8
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 <211> 44
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<220>
 <223> PCR Primer

<400> 9
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<210> 10
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<220>
 <223> Sequence primer

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<210> 11
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<220>

<223> Sequence primer

<400> 11

cgccaaaaca gccaaagct

18

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<213> Artificial Sequence

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45

<210> 13

<211> 45

<212> DNA

<213> Artificial Sequence

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<223> Mutagenic oligonucleotide primer

<400> 13

gatctgtacg acgatgacga taagatgacg gaacaggcca tctcc

45

<210> 14

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<212> DNA

<213> Artificial Sequence

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<223> PCR primer

<400> 14

cccggggaat tctgatgacg gaacaggcca tctcc

35

<210> 15

<211> 34

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<400> 15

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34

<210> 16

<211> 41

<212> DNA

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 <400> 18
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 <210> 19
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<400> 22
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<210> 23
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<400> 23
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<400> 24
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<210> 25
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<210> 26
<211> 41
<212> DNA
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<220>
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41

<210> 27

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 27

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41

<210> 28

<211> 42

<212> DNA

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<400> 28

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42

<210> 29

<211> 42

<212> DNA

<213> Artificial Sequence

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<223> PCR primer

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42

<210> 30

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

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<210> 31

<211> 297

<212> PRT

<213> Homo sapien

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<213> Homo sapien
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Lys	Leu	Leu 35	Leu	Gln	Val	Gln	His 40	Ala	Ser	Lys	Gln	Ile 45	Thr	Ala	Asp	
Lys	Gln 50	Tyr	Lys	Gly	Ile	Ile 55	Asp	Cys	Val	Val 60	Arg	Ile	Pro	Lys	Glu	
Gln 65	Glu	Val	Leu	Ser	Phe 70	Trp	Arg	Gly	Asn	Leu 75	Ala	Asn	Val	Ile	Arg 80	
Tyr	Phe	Pro	Thr	Gln 85	Ala	Leu	Asn	Phe	Ala 90	Phe	Lys	Asp	Lys	Tyr 95	Lys	
Gln	Ile	Phe	Leu 100	Gly	Gly	Val	Asp	Lys 105	Arg	Thr	Gln	Phe	Trp 110	Arg	Tyr	
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Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
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 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
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 Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly
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 Phe Asn Val Ser Val Gln Gly Ile Ile Tyr Arg Ala Ala Tyr Phe
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 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
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 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
 245 250 255
 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 260 265 270
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 275 280 285
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<210> 33
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 <212> PRT
 <213> Homo sapien

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 35 40 45
 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
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 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly
 165 170 175
 Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220

Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
 245 250 255
 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 260 265 270
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 275 280 285
 Val Leu Tyr Asp Glu Leu Lys Lys Val Ile
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<210> 34
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of human ANT3 for
 expression construct

<400> 34
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<210> 35
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<220>
 <223> Primer for PCR amplification of human ANT3 for
 expression construct

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 <223> Primer for PCR amplification of EYFP

<400> 36
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